

CLAIMS

1. A method of operating a sewage system for draining waste water, characterized in that oxygen is artificially and periodically added to the waste water.

5 2. A method according to claim 1, wherein air is periodically blown into the sewage system by means of an air pump.

3. A method according to claim 1 or 2, wherein oxygen is added to the sewage system 1 - 20 times per hour.

10 4. A method according to any one of the preceding claims, wherein oxygen is added to the sewage system at a location as far away from a discharge point as possible.

5. A method according to any one of the preceding claims, wherein the air blowing parameters are selected in dependence on the sewage system parameters.

15 6. A sewage system for draining waste water from a number of users to at least one discharge point, comprising a pipe system and pits incorporated therein, characterized in that means for periodically introducing oxygen into the waste water are provided at a number of locations in the sewage 20 system.

7. A sewage system according to claim 6, wherein said means for introducing oxygen comprise air pumps.

25 8. A sewage system according to claim 6, wherein said air pumps are installed in at least a number of said pits.

9. A sewage system according to claim 6, wherein an air pump is installed in one in 5 to 25 pits.

30 10. A sewage system according to any one of the claims 7 - 9, wherein an air outlet of the air pumps opens below the normal level of the waste water.

11. A sewage system according to any one of the claims 7 - 10, which consists of a closed pressure pipe system, wherein a sewage pump is installed at least in a number of pits for discharging the waste water from the pit.

AMENDED CLAIMS

[Received by the International Bureau on 12 July 2005 (12.07.05):
original claim 8 amended; new claims 12 and 13 added; remaining claims unchanged
(2 pages)]

1. A method of operating a sewage system for
draining waste water, characterized in that oxygen is
artificially and periodically added to the waste water.

5 2. A method according to claim 1, wherein air is
periodically blown into the sewage system by means of an air
pump.

3. A method according to claim 1 or 2, wherein
oxygen is added to the sewage system 1 - 20 times per hour.

10 4. A method according to any one of the preceding
claims, wherein oxygen is added to the sewage system at a
location as far away from a discharge point as possible.

5 5. A method according to any one of the preceding
claims, wherein the air blowing parameters are selected in
dependence on the sewage system parameters.

15 6. A sewage system for draining waste water from a
number of users to at least one discharge point (3),
comprising a pipe system (1) and pits (2) incorporated
therein, characterized in that means (5) for periodically
introducing oxygen into the waste water are provided at a
20 number of locations in the sewage system.

7. A sewage system according to claim 6, wherein
said means for introducing oxygen comprise air pumps (5).

25 8. A sewage system according to claim 7, wherein
said air pumps (5) are installed in at least a number of said
pits (2).

9. A sewage system according to claim 6, wherein an
air pump (5) is installed in one in 5 to 25 pits.

30 10. A sewage system according to any one of the
claims 7 - 9, wherein an air outlet of the air pumps (5)
opens below the normal level of the waste water.

11. A sewage system according to any one of the
claims 7 - 10, which consists of a closed pressure pipe
system (1), wherein a sewage pump (4) is installed at least

in a number of pits (2) for discharging the waste water from the pit.

12. A method of operating a pressure sewage system for draining waste water, wherein air is blown into the waste 5 water at predetermined intervals by means of an air pump (5) at a location as far away from a discharge point as possible and independently of sewage pits (2).

13. A sewage system for draining waste water from a number of users to at least one discharge point (3), 10 comprising a closed pressure pipe system (1) and pump pits (2) containing a sewage pump (4) incorporated therein, and further comprising an air pump (5) for introducing air into the waste water at predetermined intervals at a number of locations in the sewage system independent of the pits.

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